

Weekly Report

2017.1225-2018.0101

1. This Week

Summarization Form

| Task | Progress | Time |
|---------------------------------|-------------------------------------------------------|----------|
| Power Grid Project in Ningbo | Follow the plan and decide details about the project. | February |
| Power Grid Visualization Survey | Gathering materials. | |
| VIS 2018 paper | Make first attempts | 4.1 |

Power Flow Project in Ningbo

1. Discuss with Zhang Wei about the content of the system and start the design.
2. Discuss with Gao Shengjie & other students in Ningbo about the details of the system, including:
 - Layout of the topological view
 - Design of the parallel bar chart showing the convergence process
 - Granularities of the parallel bar chart
 - View showing details of individual bus
3. Discuss with Huang and Xu about the power flow calculation process and abstract important parameters and calculation parts during the process.

Idea Evaluation for VIS 2018

1. process the 20G data into static files of temporal variables.
2. Run RNN, AE, RBM algorithm on the raw data to see first classification accuracy on the raw data.
3. Learn about basic machine learning methods and keras library.
4. The coding framework is finished by Wang Qi based on react and redux.

Others

1. Revise the summarization material according to the advice of Huang and Xu.
2. Write the blog of the reported paper on group meeting.

Paper Reading

1. Visual Analysis of Place Connectedness by Public Transport
2. Structuring Visualization Mock-ups at the Graphical Level by Dividing the Display Space
3. 《机器学习》 周志华

2. TODO

1. VIS 2018 paper
2. Power grid project in ningbo